ROHM

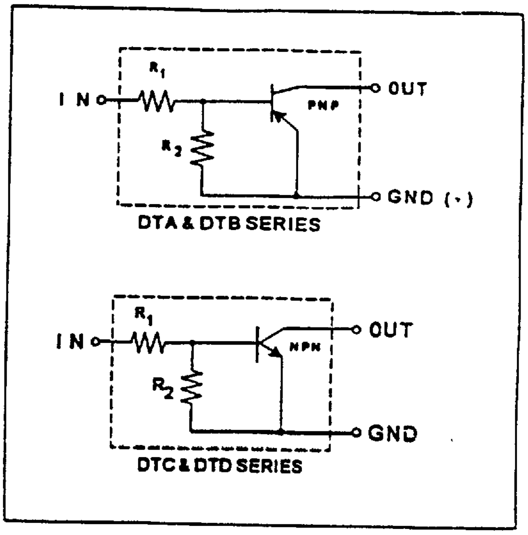
DTA/DTB/DTC/DTD

DIGITAL TRANSISTOR

APPLICATION:
- Inverter, Driver & Interface Circuits

FEATURES:
- Replaces up to three parts (1 transistor & 2 resistors) with one part
- Available in a variety of surface mount or leaded (thru-hole) packages
- High packing density requires less board space
- Cost savings due to fewer components to purchase & stock & handle
- Improved reliability due to reduced number of components
- Available in PNP & NPN polarities
- Available in 100 mA & 500 mA devices
- Decreased parasitic effects
- Double diffused silicon, Epitaxial Planar Transistor with thin film internal bias resistors

EQUIVALENT CIRCUITS:



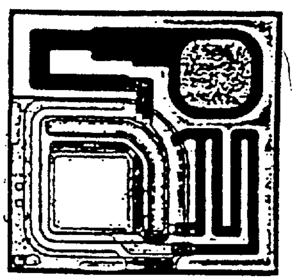
MAXIMUM RATINGS:

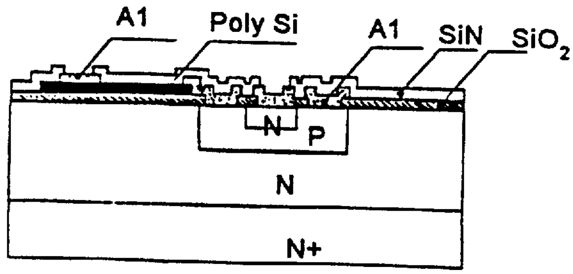
PARAMETER	PNP		NPN		UNITS
	DTA	DTB	DTC	DTD	
Power Supply Voltage (V_{cc})	50	50	50	50	Volts
Collector Current (I_c)	100	500	100	500	mA
Junction Temperature (Tj)	+125	+125	+125	+125	°C
Storage Temperature (Tstg)	-55 to +125	-55 to +125	-55 to +125	-55 to +125	°C
Power Dissipation (Pd)	Rated by Package -- See Table Below				mW

MAXIMUM POWER DISSIPATION BY PACKAGE: Pd (mW)

Test Condition	SURFACE MOUNT DEVICES				THRU-HOLE (LEADED) DEVICES				
	SST (SOT-23)	SMT (SC-59)	UMT	EM3	SPT (TO-92S)	ATR	ATV	FTR	FTL
Free Air/PCB	200	200	200	150	300	300	300	300	300
Ceramic Substrate	350	350	350	250	—	—	—	—	—

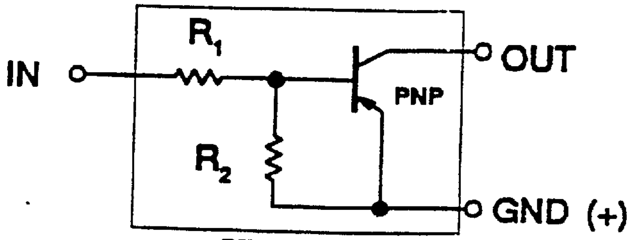
DIGITAL TRANSISTOR CONSTRUCTION:



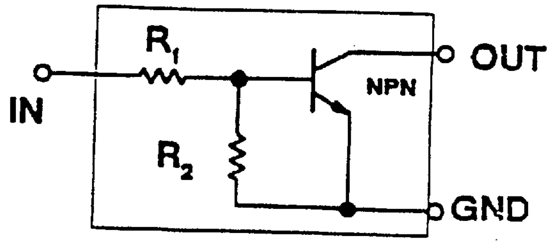


ROHM CORPORATION, Rohm Electronics Division, 3034 Owen Dr., Antioch, TN 37013 (615)641-2020 FAX (615)641-2022

- **Digital Transistor Summary Table**



DTA & DTB SERIES



DTC & DTD SERIES

Resistor Values		PNP I_c(Max) = 100 mA 2N3906	PNP I_c(Max) = 600 mA PN2907A/2N4403	NPN I_c(Max) = 100 mA 2N3904	NPN I_c(Max) = 500 mA PN2222A/2N4401
R_1	R_2				
1K	1K	-	DTB 113E	-	DTD 113E
1K	NONE	DTA 113T	-	-	-
1K	10K	DTA 113Z	DTB 113Z	DTC 113Z	DTD 113Z
10K	10K	DTA 114E	DTB 114E	DTC 114E	DTD 114E
0	10K	DTA 114G	-	DTC 114G	DTD 114G
10K	NONE	DTA 114T	DTB 114T	DTC 114T/DTC 314T *	DTD 114T
10K	4.7K	DTA 114W	-	DTC 114W	-
10K	47K	DTA 114Y/DTA 214Y	-	DTC 114Y	-
100K	100K	DTA 115E	-	DTC 115E	-
0	100K	DTA 115G	-	DTC 115G	-
100K	NONE	DTA 115T	-	DTC 115T	-
100K	10K	DTA 115U	-	DTC 115U	-
.22K	4.7K	-	DTB 122J	-	DTD 122J
2.2K	2.2K	DTA 123E	DTB 123E	DTC 123E	DTD 123E
2.2K	NONE	-	DTB 123T	DTC 323T *	DTD 123T
2.2K	47K	DTA 123J	-	DTC 123J	-
2.2K	10K	DTA 123Y	DTB 123Y	DTC 123Y	DTD 123Y
2.7K	1K	DTA 1D3R	-	DTC 1D3R	-
22K	22K	DTA 124E	-	DTC 124E	-
0	22K	DTA 124G	-	DTC 124G	-
22K	NONE	DTA 124T	-	DTC 124T	-
22K	47K	DTA 124X	-	DTC 124X	-
220K	NONE	DTA 125T	-	DTC 125T	-
3.3K	10K	-	DTB 133H	-	DTD 133H
4.7K	4.7K	DTA 143E	DTB 143E	DTC 143E	DTD 143E
4.7K	NONE	DTA 143T	DTB 143T	DTC 143T/DTC 343T *	DTD 143T
4.7K	10K	DTA 143X	-	DTC 143X	-
4.7K	22K	DTA 143Y	-	DTC 143Y	-
4.7K	47K	DTA 143Z	-	DTC 143Z	-
47K	47K	DTA 144E	-	DTC 144E	-
0	47K	DTA 144G	-	DTC 144G	-
47K	NONE	DTA 144T	-	DTC 144T	-
47K	10K	DTA 144V	-	DTC 144V	-
47K	22K	DTA 144W	-	DTC 144W	-
6.8K	6.8K	-	-	DTC 363E *	-
6.8K	NONE	-	DTB 163T	DTC 363T *	DTD 163T

* I_c = 600 mA

NOTE: See "How to Order" for complete part number

DIGITAL TRANSISTOR: PNP

ELECTRICAL CHARACTERISTICS: 100 mA Series

PART	Vin(off)			Vin(on)			Vo(on)				Ib		Ic(OFF)			Vce(SAT)			Cob @ F=1MHz				CUT-OFF FREQ		
NUMBER	Max (V)	Vce (V)	Ic (mA)	Min (V)	Vce (V)	Ic (mA)	TYP (V)	Max (V)	Ic (mA)	Ib (mA)	Max (mA)	Vin (V)	Max (uA)	Vcc (V)	Vin (V)	Max (V)	Ic (mA)	Ib (mA)	TYP (pF)	Max (pF)	Vcb (V)	Ie (mA)	fT (MHz)	Vce (V)	Ic (mA)
DTA113Z	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114E	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114W	0.8	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114Y	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA115E	0.5	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.15	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA115U	3.3	5	0.1	1.5	0.3	1	0.1	0.3	7	0.2	0.1	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA123E	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA123J	0.5	5	0.1	1.1	0.3	5	0.1	0.3	5	0.25	3.6	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA123Y	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA124E	0.5	5	0.1	3	0.2	5	0.1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA124X	0.4	5	0.1	2.5	0.3	2	0.1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA143E	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA143X	0.3	5	0.1	2.5	0.3	20	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA143Y	0.3	5	0.1	3	0.3	10	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA143Z	0.5	5	0.1	1.3	0.3	5	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA144E	0.5	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.18	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA144V	1.0	5	0.1	6	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA144W	0.8	5	0.1	4	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA214Y	0.3	5	0.1	1.4	0.3	1	0.1	0.3	50	2.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA1D3R	1.5	5	0.1	4	0.3	5	0.1	0.3	10	1	3.7	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5

PART	Vin(off)			Vin(on)			Vo(on)				Ib		Ic(OFF)			Vce(SAT)			Cob @ F=1MHz				CUT-OFF FREQ		
NUMBER	Max (V)	Vce (V)	Ic (mA)	Min (V)	Vce (V)	Ic (uA)	TYP (V)	Max (V)	Ic (mA)	Ib (mA)	Max (mA)	Vin (V)	Max (uA)	Vcc (V)	Vin (V)	Max (V)	Ic (mA)	Ib (mA)	TYP (pF)	Max (pF)	Vcb (V)	Ie (mA)	fT (MHz)	Vce (V)	Ic (mA)
DTA143T	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTA114T	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	1	3	6	10	0	250	10	5
DTA124T	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.5	3	6	10	0	250	10	5
DTA144T	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.5	3	6	10	0	250	10	5
DTA115T	0.5	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.15	5	10	30	0	0.3	1	0.1	3	6	10	0	250	10	5
DTA125T	0.8	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.33	5	10	30	0	0.3	0.5	0.05	3	6	10	0	250	10	5
DTA113T	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.2	3	6	10	0	250	10	5

PART	Vin(off)			Vin(on)			Vo(on)				Ib		Ic(OFF)			Vce(SAT)			Cob @ F=1MHz				CUT-OFF FREQ		
NUMBER	Max (V)	Vce (V)	Ic (mA)	Min (V)	Vce (V)	Ic (uA)	TYP (V)	Max (V)	Ic (mA)	Ib (mA)	Max (mA)	Vin (V)	Max (uA)	Vcc (V)	Vin (V)	Max (V)	Ic (mA)	Ib (mA)	TYP (pF)	Max (pF)	Vcb (V)	Ie (mA)	fT (MHz)	Vce (V)	Ic (mA)
DTA114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	10	0.5	3	6	10	0	250	10	5
DTA124G	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	0.5	3	6	10	0	250	10	5
DTA144G	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	10	0.5	3	6	10	0	250	10	5
DTA115G	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	10	0.25	3	6	10	0	250	10	5
DTB114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	50	2.5	3	6	10	0	200	10	5

ELECTRICAL CHARACTERISTICS: 500 mA Series

PART	Vin(off)			Vin(on)			Vo(on)				Ib		Ic(OFF)			Vce(SAT)			Cob @ F=1MHz				CUT-OFF FREQ		
NUMBER	Max (V)	Vce (V)	Ic (mA)	Min (V)	Vce (V)	Ic (uA)	TYP (V)	Max (V)	Ic (mA)	Ib (mA)	Max (mA)	Vin (V)	Max (uA)	Vcc (V)	Vin (V)	Max (V)	Ic (mA)	Ib (mA)	TYP (pF)	Max (pF)	Vcb (V)	Ie (mA)	fT (MHz)	Vce (V)	Ic (mA)
DTB113E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTB113Z	0.3	5	0.1	3	0.3	20	0.1	0.3	50	2.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTB114E	0.5	5	0.1	3	0.3	10	0.1	0.3	50	2.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTB123E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTB143E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTB123Y	0.3	5	0.1	2	0.3	20	0.1	0.3	50	2.5	3.6	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTB122J	0.3	5	0.1	2	0.3	30	0.1	0.3	50	2.5	4.5	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTB133H	0.3	5	0.1	2	0.3	20	0.1	0.3	50	2.5	2.4	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50

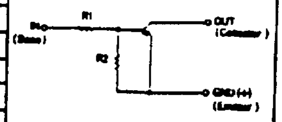
PART	Vin(off)			Vin(on)			Vo(on)				Ib		Ic(OFF)			Vce(SAT)			Cob @ F=1MHz				CUT-OFF FREQ		
NUMBER	Max (V)	Vce (V)	Ic (mA)	Min (V)	Vce (V)	Ic (uA)	TYP (V)	Max (V)	Ic (mA)	Ib (mA)	Max (mA)	Vin (V)	Max (uA)	Vcc (V)	Vin (V)	Max (V)	Ic (mA)	Ib (mA)	TYP (pF)	Max (pF)	Vcb (V)	Ie (mA)	fT (MHz)	Vce (V)	Ic (mA)
DTB123T	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	5
DTB143T	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	5
DTB163T	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	5
DTB114T	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	50	0	0.3	5	0.25	3	6	10	0	200	10	5

DIGITAL TRANSISTOR: PNP

ELECTRICAL CHARACTERISTICS: 100 mA Series

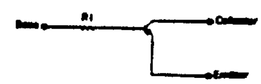
PART NUMBER	TYP	RESISTOR VALUE R1 (K)	R2 (K)	R2/R1 Min	R2/R1 Typ	R2/R1 Max	Ic Max (mA)	INPUT VOLT Min (V)	INPUT VOLT Max (V)	hFE Min	hFE Vce (V)	hFE Ic (mA)	Icbo Max (uA)	Icbo Vcb (V)	Iceo Max (uA)	Iceo Vce (V)	PART MARK	DIE TYPE
DTA113Z	PNP	1.0	10.0	8	10	12	100	-10	5	33	5	5	0.5	50	0.5	50	E11/111	A776
DTA114E	PNP	10.0	10.0	0.8	1	1.2	100	-40	10	30	5	5	0.5	50	0.5	50	14	A766
DTA114W	PNP	10.0	4.7	0.37	0.47	0.57	100	-30	10	24	5	10	0.5	50	0.5	50	74	A778
DTA114Y	PNP	10.0	47.0	3.7	4.7	5.7	100	-40	6	68	5	5	0.5	50	0.5	50	54	A762
DTA115E *	PNP	100.0	100.0	0.8	1	1.2	100	-40	10	82	5	5	0.5	50	0.5	50	19	B861
DTA115U	PNP	100.0	10.0	0.08	0.1	0.12	100	-40	10	27	5	5	0.5	50	0.5	50	E79/179	B865
DTA123E	PNP	2.2	2.2	0.8	1	1.2	100	-12	10	20	5	20	0.5	50	0.5	50	12	A733
DTA123J	PNP	2.2	47.0	17	21	26	100	-12	5	80	5	10	0.5	50	0.5	50	E32/132	A774
DTA123Y	PNP	2.2	10.0	3.6	4.5	5.5	100	-12	5	33	5	10	0.5	50	0.5	50	52	A777
DTA124E	PNP	22.0	22.0	0.8	1	1.2	100	-40	10	56	5	5	0.5	50	0.5	50	15	A761
DTA124X	PNP	22.0	47.0	1.7	2.1	2.6	100	-40	10	68	5	5	0.5	50	0.5	50	35	A770
DTA143E	PNP	4.7	4.7	0.8	1	1.2	100	-30	10	20	5	10	0.5	50	0.5	50	13	A768
DTA143X	PNP	4.7	10.0	1.7	2.1	2.6	100	-20	7	30	5	10	0.5	50	0.5	50	33	A769
DTA143Y	PNP	4.7	22.0	3.7	4.7	5.7	100	-30	6	56	5	5	0.5	50	0.5	50	53	A785
DTA143Z	PNP	4.7	47.0	8	10	12	100	-30	5	80	5	10	0.5	50	0.5	50	E13/113	A775
DTA144E	PNP	47.0	47.0	0.8	1	1.2	100	-40	15	68	5	5	0.5	50	0.5	50	16	A782
DTA144V	PNP	47.0	10.0	0.17	0.21	0.26	100			33	5	5	0.5	50	0.5	50	E56/156	A774
DTA144W	PNP	47.0	22.0	0.37	0.47	0.57	100	-40	10	56	5	5	0.5	50	0.5	50	76	A767
DTA214Y	PNP	10	47	3.7	4.7	5.7	100	-40	6	68	5	5	0.5	50	0.5	50	N14	A762
DTA1D3R	PNP	2.7	1.0	0.33	0.37	0.41	100	-15	15	20	5	30	0.5	50	0.5	50	K38	A784

EQUIVALENT CIRCUIT



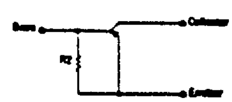
PART NUMBER	TYP	RESISTOR VALUE R1 (K)	R2 (K)	Vcbo Max (V)	Vceo Max (V)	Vebo Max (V)	Ic Max (mA)	hFE Min	hFE Typ	hFE Max	Vce (V)	Ic (mA)	Icbo Max (uA)	Icbo Vcb (V)	Iebo Max (uA)	Iebo Veb (V)	PART MARK	DIE TYPE
DTA143T	PNP	4.7	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	93	A764
DTA114T	PNP	10.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	94	A765
DTA124T	PNP	22.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	95	A771
DTA144T	PNP	47.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	96	A772
DTA115T	PNP	100.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	99	B864
DTA125T	PNP	200.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	9A	B863
DTA113T	PNP	1.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	91	A786

EQUIVALENT CIRCUIT



PART NUMBER	TYP	RESISTOR VALUE R1 (K)	R2 (K)	Vcbo Max (V)	Vceo Max (V)	Vebo Max (V)	Ic Max (mA)	hFE Min	hFE Typ	hFE Max	Vce (V)	Ic (mA)	Icbo Max (uA)	Icbo Vcb (V)	Iebo Max (uA)	Iebo Veb (V)	PART MARK	DIE TYPE
DTA114G	PNP	0	10.0	50	50	5	100	30	-	-	5	5	0.5	50	580	4	K14	A780
DTA124G	PNP	0	22.0	50	50	5	100	56	-	-	5	5	0.5	50	260	4	K15	A781
DTA144G	PNP	0	47.0	50	50	5	100	68	-	-	5	5	0.5	50	130	4	K16	A782
DTA115G	PNP	0	100.0	50	50	5	100	82	-	-	5	5	0.5	50	58	4	K19	B862
DTB114G	PNP	0	10.0	50	50	5	500	56	-	-	5	100	0.5	50	0.5	4	L14	B726

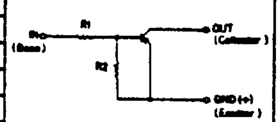
EQUIVALENT CIRCUIT



ELECTRICAL CHARACTERISTICS: 500 mA Series

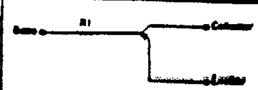
PART NUMBER	TYP	RESISTOR VALUE R1 (K)	R2 (K)	R2/R1 Min	R2/R1 Typ	R2/R1 Max	Ic Max (mA)	INPUT VOLT Min (V)	INPUT VOLT Max (V)	hFE Min	hFE Vce (V)	hFE Ic (mA)	Icbo Max (uA)	Icbo Vcb (V)	Iceo Max (uA)	Iceo Vce (V)	PART MARK	DIE TYPE
DTB113E	PNP	1.0	1.0	0.8	1	1.2	500	-10	10	33	5	50	0.5	50	0.5	50	F11	B717
DTB113Z	PNP	1.0	10.0	8	10	12	500	-10	5	56	5	50	0.5	50	0.5	50	G11	B718
DTB114E	PNP	10.0	10.0	0.8	1	1.2	500	-40	10	56	5	50	0.5	50	0.5	50	F14	B714
DTB123E	PNP	2.2	2.2	0.8	1	1.2	500	-12	10	39	5	50	0.5	50	0.5	50	F12	B712
DTB143E	PNP	4.7	4.7	0.8	1	1.2	500	-30	10	47	5	50	0.5	50	0.5	50	F13	B713
DTB123Y	PNP	2.2	10.0	3.6	4.5	5.5	500	-12	5	56	5	50	0.5	50	0.5	50	F52	B715
DTB122J	PNP	0.22	4.7	17.1	21.3	25.6	500	-5	5	47	5	50	0.5	50	0.5	50	G3C	B725
DTB133H	PNP	3.3	10.0	2.4	3	3.7	500	-20	6	56	5	50	0.5	50	0.5	50	G98	B719

EQUIVALENT CIRCUIT



PART NUMBER	TYP	RESISTOR VALUE R1 (K)	R2 (K)	Vcbo Max (V)	Vceo Max (V)	Vebo Max (V)	Ic Max (mA)	hFE Min	hFE Typ	hFE Max	Vce (V)	Ic (mA)	Icbo Max (uA)	Icbo Vcb (V)	Iebo Max (uA)	Iebo Veb (V)	PART MARK	DIE TYPE
DTB123T	PNP	2.2	NONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5	4	E92	B723
DTB143T	PNP	4.7	NONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5	4	F03	B720
DTB163T	PNP	6.8	NONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5	4	E97	B721
DTB114T	PNP	10.0	NONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5	4	E94	B722

EQUIVALENT CIRCUIT



DIGITAL TRANSISTOR: NPN

ELECTRICAL CHARACTERISTICS: 100 mA Series

PART NUMBER	Vin(off) Max (V)	Vce (V)	Ic (mA)	Vin(on) Min (V)	Vce (V)	Ic (mA)	Vo(on) TYP (V)	Max (V)	Ic (mA)	Ib (mA)	Ib Max (mA)	Vin (V)	Ic(OFF) Max (uA)	Vcc (V)	Vin (V)	Vce(SAT) Max (V)	Ic (mA)	Ib (mA)	Cob @ F=1MHz TYP (pF)	Max (pF)	Vcb (V)	Ie (mA)	CUT-OFF FREQ fT (MHz)	Vce (V)	Ic (mA)
DTC113Z	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC114E	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC114W	0.8	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC114Y	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC115E	0.5	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.15	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC115U	3.3	5	0.1	1.5	0.3	1	0.1	0.3	7	0.2	0.1	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC123E	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC123J	0.5	5	0.1	1.1	0.3	5	0.1	0.3	5	0.25	3.6	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC123Y	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC124E	0.5	5	0.1	3	0.2	5	0.1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC124X	0.4	5	0.1	2.5	0.3	2	0.1	0.3	10	0.5	0.36	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143E	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143X	0.3	5	0.1	2.5	0.3	20	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143Y	0.3	5	0.1	3	0.3	10	0.1	0.3	10	0.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC143Z	0.5	5	0.1	1.3	0.3	5	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC144E	0.5	5	0.1	3	0.3	2	0.1	0.3	10	0.5	0.18	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC144V	1.0	5	0.1	6	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC144W	0.8	5	0.1	4	0.3	2	0.1	0.3	10	0.5	0.16	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC214Y	0.3	5	0.1	1.4	0.3	1	0.1	0.3	50	2.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC1D3R	1.5	5	0.1	4	0.3	5	0.1	0.3	10	1	3.7	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5

PART NUMBER	Vin(off) Max (V)	Vce (V)	Ic (mA)	Vin(on) Min (V)	Vce (V)	Ic (uA)	Vo(on) TYP (V)	Max (V)	Ic (mA)	Ib (mA)	Ib Max (mA)	Vin (V)	Ic(OFF) Max (uA)	Vcc (V)	Vin (V)	Vce(SAT) Max (V)	Ic (mA)	Ib (mA)	Cob @ F=1MHz TYP (pF)	Max (pF)	Vcb (V)	Ie (mA)	CUT-OFF FREQ fT (MHz)	Vce (V)	Ic (mA)
DTC143T	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	250	10	5
DTC114T	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	1	3	6	10	0	250	10	5
DTC124T	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.5	3	6	10	0	250	10	5
DTC144T	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.5	3	6	10	0	250	10	5
DTC115T	0.5	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.15	5	10	30	0	0.3	1	0.1	3	6	10	0	250	10	5
DTC125T	0.8	5	0.1	3	0.3	1	0.1	0.3	5	0.25	0.33	5	10	30	0	0.3	0.5	0.05	3	6	10	0	250	10	5
DTC113T	0.5	5	0.1	3	0.3	20	0.1	0.3	10	0.5	3.8	5	10	30	0	0.3	5	0.2	3	6	10	0	250	10	5

PART NUMBER	Vin(off) Max (V)	Vce (V)	Ic (mA)	Vin(on) Min (V)	Vce (V)	Ic (uA)	Vo(on) TYP (V)	Max (V)	Ic (mA)	Ib (mA)	Ib Max (mA)	Vin (V)	Ic(OFF) Max (uA)	Vcc (V)	Vin (V)	Vce(SAT) Max (V)	Ic (mA)	Ib (mA)	Cob @ F=1MHz TYP (pF)	Max (pF)	Vcb (V)	Ie (mA)	CUT-OFF FREQ fT (MHz)	Vce (V)	Ic (mA)
DTC114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	10	0.5	3	6	10	0	250	10	5
DTC124G	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	10	0.5	3	6	10	0	250	10	5
DTC144G	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	10	0.5	3	6	10	0	250	10	5
DTC115G	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	10	0.25	3	6	10	0	250	10	5
DTD114G	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	50	2.5	3	6	10	0	200	10	5

ELECTRICAL CHARACTERISTICS: 500 mA Series

PART NUMBER	Vin(off) Max (V)	Vce (V)	Ic (mA)	Vin(on) Min (V)	Vce (V)	Ic (uA)	Vo(on) TYP (V)	Max (V)	Ic (mA)	Ib (mA)	Ib Max (mA)	Vin (V)	Ic(OFF) Max (uA)	Vcc (V)	Vin (V)	Vce(SAT) Max (V)	Ic (mA)	Ib (mA)	Cob @ F=1MHz TYP (pF)	Max (pF)	Vcb (V)	Ie (mA)	CUT-OFF FREQ fT (MHz)	Vce (V)	Ic (mA)
DTD113E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTD113Z	0.3	5	0.1	3	0.3	20	0.1	0.3	50	2.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTD114E	0.5	5	0.1	3	0.3	10	0.1	0.3	50	2.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTD123E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	3.8	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTD143E	0.5	5	0.1	3	0.3	20	0.1	0.3	50	2.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTD123Y	0.3	5	0.1	3	0.3	20	0.1	0.3	50	2.5	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTD122J	0.3	5	0.1	2	0.3	30	0.1	0.3	50	2.5	3.6	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50
DTD133H	0.3	5	0.1	2	0.3	20	0.1	0.3	50	2.5	2.4	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	50

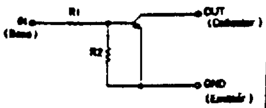
PART NUMBER	Vin(off) Max (V)	Vce (V)	Ic (mA)	Vin(on) Min (V)	Vce (V)	Ic (uA)	Vo(on) TYP (V)	Max (V)	Ic (mA)	Ib (mA)	Ib Max (mA)	Vin (V)	Ic(OFF) Max (uA)	Vcc (V)	Vin (V)	Vce(SAT) Max (V)	Ic (mA)	Ib (mA)	Cob @ F=1MHz TYP (pF)	Max (pF)	Vcb (V)	Ie (mA)	CUT-OFF FREQ fT (MHz)	Vce (V)	Ic (mA)
DTD123T	0.3	5	0.1	3	0.3	20	0.1	0.3	10	0.5	7.2	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	5
DTD143T	0.5	5	0.1	3	0.3	10	0.1	0.3	10	0.5	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	5
DTD163T	0.8	5	0.1	3	0.3	2	0.1	0.3	5	0.25	1.8	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	5
DTD114T	0.3	5	0.1	1.4	0.3	1	0.1	0.3	5	0.25	0.88	5	10	30	0	0.3	5	0.25	3	6	10	0	200	10	5

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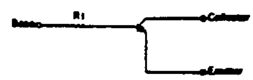
DIGITAL TRANSISTOR: NPN

ELECTRICAL CHARACTERISTICS: 100 mA Series

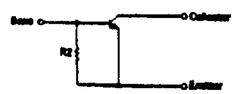
PART NUMBER	TYP	RESISTOR VALUE R1 (K)	R2 (K)	R2/R1 Min	Typ	Max	Ic Max (mA)	INPUT VOLT Min (V)	Max (V)	hFE Min	Vce (V)	Ic (mA)	Icbo Max (uA)	Vcb (V)	Iceo Max (uA)	Vce (V)	PART MARK	DIE TYPE	EQUIVALENT CIRCUIT
DTC113Z	NPN	1.0	10.0	8	10	12	100	-10	5	33	5	5	0.5	50	0.5	50	E12/121	C776	
DTC114E	NPN	10.0	10.0	0.8	1	1.2	100	-40	10	30	5	5	0.5	50	0.5	50	24	C766	
DTC114W	NPN	10.0	4.7	0.37	0.47	0.57	100	-30	10	24	5	10	0.5	50	0.5	50	84	C778	
DTC114Y	NPN	10.0	47.0	3.7	4.7	5.7	100	-40	6	68	5	5	0.5	50	0.5	50	64	C762	
DTC115E *	NPN	100.0	100.0	0.8	1	1.2	100	-40	10	82	5	5	0.5	50	0.5	50	29	D861	
DTC115U	NPN	100.0	10.0	0.08	0.1	0.12	100	-40	10	27	5	5	0.5	50	0.5	50	E89/189	D865	
DTC123E	NPN	2.2	2.2	0.8	1	1.2	100	-12	10	20	5	20	0.5	50	0.5	50	22	C733	
DTC123J	NPN	2.2	47.0	17	21	26	100	-12	5	80	5	10	0.5	50	0.5	50	E42/142	C774	
DTC123Y	NPN	2.2	10.0	3.6	4.5	5.5	100	-12	5	33	5	10	0.5	50	0.5	50	62	C777	
DTC124E	NPN	22.0	22.0	0.8	1	1.2	100	-40	10	56	5	5	0.5	50	0.5	50	25	C761	
DTC124X	NPN	22.0	47.0	1.7	2.1	2.6	100	-40	10	68	5	5	0.5	50	0.5	50	45	C770	
DTC143E	NPN	4.7	4.7	0.8	1	1.2	100	-30	10	20	5	10	0.5	50	0.5	50	23	C768	
DTC143X	NPN	4.7	10.0	1.7	2.1	2.6	100	-20	7	30	5	10	0.5	50	0.5	50	43	C769	
DTC143Y	NPN	4.7	22.0	3.7	4.7	5.7	100	-30	6	56	5	5	0.5	50	0.5	50	63	C785	
DTC143Z	NPN	4.7	47.0	8	10	12	100	-30	5	80	5	10	0.5	50	0.5	50	E23/123	C775	
DTC144E	NPN	47.0	47.0	0.8	1	1.2	100	-40	15	68	5	5	0.5	50	0.5	50	26	C782	
DTC144V	NPN	47.0	10.0	0.17	0.21	0.26	100			33	5	5	0.5	50	0.5	50	E66/166	C774	
DTC144W	NPN	47.0	22.0	0.37	0.47	0.57	100	-40	10	56	5	5	0.5	50	0.5	50	86	C767	
DTC214Y	NPN	10	47	3.7	4.7	5.7	100	-40	6	68	5	5	0.5	50	0.5	50	N24	C762	
DTC1D3R	NPN	2.7	1.0	0.33	0.37	0.41	100	-15	15	20	5	30	0.5	50	0.5	50	K4B	C784	



PART NUMBER	TYP	RESISTOR VALUE R1 (K)	R2 (K)	Vcbo Max (V)	Vceo Max (V)	Vebo Max (V)	Ic Max (mA)	hFE Min	Typ	Max	Vce (V)	Ic (mA)	Icbo Max (uA)	Vcb (V)	Iebo Max (uA)	Veb (V)	PART MARK	DIE TYPE	EQUIVALENT CIRCUIT
DTC143T	NPN	4.7	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	3	C764	
DTC114T	NPN	10.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	4	C765	
DTC124T	NPN	22.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	5	C771	
DTC144T	NPN	47.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	6	C772	
DTC115T	NPN	100.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	9	D864	
DTC125T	NPN	200.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	0A	D863	
DTC113T	NPN	1.0	NONE	50	50	5	100	100	250	600	5	1	0.5	50	0.5	4	1	C786	

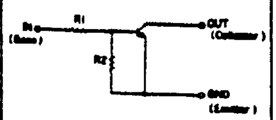


PART NUMBER	TYP	RESISTOR VALUE R1 (K)	R2 (K)	Vcbo Max (V)	Vceo Max (V)	Vebo Max (V)	Ic Max (mA)	hFE Min	Typ	Max	Vce (V)	Ic (mA)	Icbo Max (uA)	Vcb (V)	Iebo Max (uA)	Veb (V)	PART MARK	DIE TYPE	EQUIVALENT CIRCUIT
DTC114G	NPN	0	10.0	50	50	5	100	30	-	-	5	5	0.5	50	580	4	K24	C780	
DTC124G	NPN	0	22.0	50	50	5	100	56	-	-	5	5	0.5	50	260	4	K25	C781	
DTC144G	NPN	0	47.0	50	50	5	100	68	-	-	5	5	0.5	50	130	4	K26	C782	
DTC115G	NPN	0	100.0	50	50	5	100	82	-	-	5	5	0.5	50	58	4	K29	D862	
DTD114G	NPN	0	10.0	50	50	5	500	56	-	-	5	100	0.5	50	0.5	4	L24	D726	

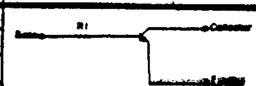


ELECTRICAL CHARACTERISTICS: 500 mA Series

PART NUMBER	TYP	RESISTOR VALUE R1 (K)	R2 (K)	R2/R1 Min	Typ	Max	Ic Max (mA)	INPUT VOLT Min (V)	Max (V)	hFE Min	Vce (V)	Ic (mA)	Icbo Max (uA)	Vcb (V)	Iceo Max (uA)	Vce (V)	PART MARK	DIE TYPE	EQUIVALENT CIRCUIT
DTD113E	NPN	1.0	1.0	0.8	1	1.2	500	-10	10	33	5	50	0.5	50	0.5	50	F21	D717	
DTD113Z	NPN	1.0	10.0	8	10	12	500	-10	5	56	5	50	0.5	50	0.5	50	G21	D718	
DTD114E	NPN	10.0	10.0	0.8	1	1.2	500	-40	10	56	5	50	0.5	50	0.5	50	F24	D714	
DTD123E	NPN	2.2	2.2	0.8	1	1.2	500	-12	10	39	5	50	0.5	50	0.5	50	F22	D712	
DTD143E	NPN	4.7	4.7	0.8	1	1.2	500	-30	10	47	5	50	0.5	50	0.5	50	F23	D713	
DTD123Y	NPN	2.2	10.0	3.6	4.5	5.5	500	-12	5	56	5	50	0.5	50	0.5	50	F62	D715	
DTD122J	NPN	0.22	4.7	17.1	21.3	25.6	500	-5	5	47	5	50	0.5	50	0.5	50	G4C	D725	
DTD133H	NPN	3.3	10.0	2.4	3	3.7	500	-20	6	56	5	50	0.5	50	0.5	50	G06	D719	



PART NUMBER	TYP	RESISTOR VALUE R1 (K)	R2 (K)	Vcbo Max (V)	Vceo Max (V)	Vebo Max (V)	Ic Max (mA)	hFE Min	Typ	Max	Vce (V)	Ic (mA)	Icbo Max (uA)	Vcb (V)	Iebo Max (uA)	Veb (V)	PART MARK	DIE TYPE	EQUIVALENT CIRCUIT
DTD123T	NPN	2.2	NONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5	4	E02	D723	
DTD143T	NPN	4.7	NONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5	4	F13	D720	
DTD163T	NPN	6.8	NONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5	4	E07	D721	
DTD114T	NPN	10.0	NONE	50	50	5	500	100	250	600	5	50	0.5	50	0.5	4	E04	D722	



7828999 0014560 977

- **Digital Transistors**

HOW TO ORDER:

DT A 1 24 E C T116

(1) DT — (2) A — (3) 1 — (4) 24 — (5) E — (6) C — (7) T116

(1) Rohm Digital Transistor

(2) Series

(3) Digital Transistor DIE Series

(4) R_1 Resistor Value

(5) R_2 Resistor Value

(6) Package

(7) Taping Code

(2)

Code	Description
A	PNP 100mA Series
B	PNP 500mA Series
C	NPN 100mA Series
D	NPN 500mA Series

(4)

Code	Description
13	$R_1 = 1 \times 10^3 = 1.0K\Omega$
14	$R_1 = 1 \times 10^4 = 10K\Omega$
15	$R_1 = 1 \times 10^5 = 100K\Omega$
22	$R_1 = 2 \times 10^2 = 22K\Omega$
23	$R_1 = 2 \times 10^3 = 2.2\Omega$
24	$R_1 = 2 \times 10^4 = 22K\Omega$
25	$R_1 = 2 \times 10^5 = 220K\Omega$
33	$R_1 = 3 \times 10^3 = 3.3K\Omega$
43	$R_1 = 4 \times 10^3 = 4.7K\Omega$
44	$R_1 = 4 \times 10^4 = 47K\Omega$

(5)

Code	Description
E	$R_2 = R_1$
G	R_2 = 4 Value and R_1 = C (Short)
H	$R_2 = 3 \times R_1$
J	$R_2 = 21 \times R_1$
T	R_2 = None (Open)
V	$R_2 = R_1 / 5$
W	$R_2 = R_1 / 2$
X	$R_2 = 2 \times R_1$
Y	$R_2 = 5 \times R_1$
Z	$R_2 = 10 \times R_1$

(6) (7)

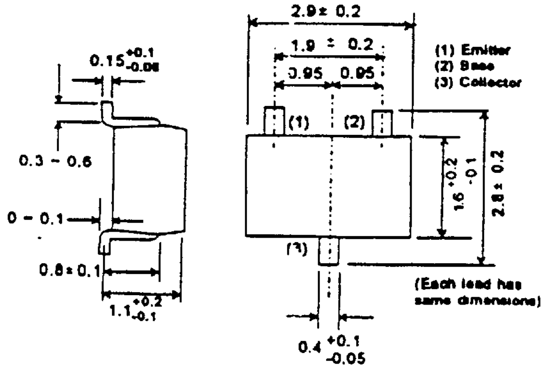
	PKG	DESCRIPTION	TAPING CODE	DESCRIPTION	PKG. QTY.	PACKAGE SIZE
SURFACE MOUNT	K	SMT (SC-59/JAPANESE SOT-23)	*T146 *T147 *T246	1 PIN SIDE ON FEED HOLE SIDE 2 PIN SIDE ON FEED HOLD SIDE 1 PIN SIDE ON FEED HOLE SIDE	3,000 3,000 10,000	178mm/7" Reel 178mm/7" Reel 330mm/13" Reel
	C	SST (EUROPEAN SOT-23)	*T116 *T117 *T216	1 PIN SIDE ON FEED HOLE SIDE 2 PIN SIDE ON FEED HOLE SIDE 1 PIN SIDE ON FEED HOLE SIDE	3,000 3,000 10,000	178mm/7" Reel 178mm/7" Reel 330 mm/13" Reel
	U	UMT (DTA & DTC ONLY)	*T106 T107	1 PIN SIDE ON FEED HOLE SIDE 2 PIN SIDE ON FEED HOLE SIDE	3,000 3,000	178 mm/7" Reel 178 mm/7" Reel
	E	EM3 (DTA & DTC ONLY)	*TL TR	1 PIN SIDE ON FEED HOLE SIDE 2 PIN SIDE ON FEED HOLE SIDE	3,000 3,000	178 mm/7" Reel 178 mm/7" Reel
LEADED DEVICES	S	SPT (Short TO-92)	*TP NONE	AMMO BOX RADIAL BULK	5,000 2,000	W-335/H-135/D-40(mm) Polyethylene Bag
	V	ATV	*TV2 TV3	AMMO BOX RADIAL AMMO BOX RADIAL	2,500 2,500	W-334/H-280/D-41(mm) W-334/H-280/D-41(mm)
	L	FTL	*TL2 TL3	AMMO BOX RADIAL AMMO BOX RADIAL	2,500 2,500	W-334/H-280/D-41(mm) W-334/H-280/D-41(mm)
	~~F~~	~~FTR~~ Discontinued	*NONE C1	BULK TUBE	2,000 8,000	Polyethylene Bag L-565/W-4.2/H-11.5(mm)
	~~A~~	~~ATR~~ Discontinued	*NONE C2	BULK TUBE	2,000 8,000	Polyethylene Bag L-565/W-4.2/H-12.6(mm)

Note: SOT-23, SC-59 and SPT packages are standard products.

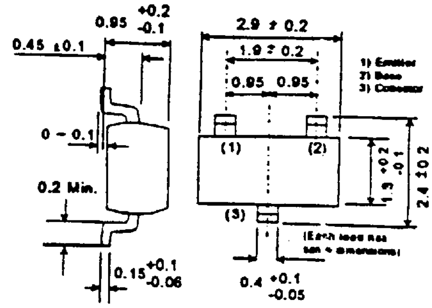
* Standard Taping Codes

ROHM CORPORATION, Rohm Electronics Division, 3034 Owen Dr., Antioch, TN 37013 (615)641-2020 FAX (615)641-2022

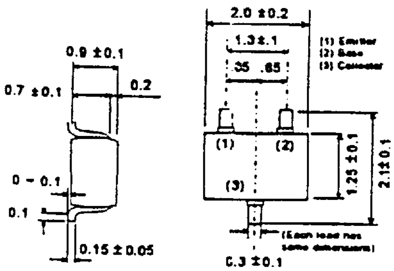
- Surface Mount Packages: Unit (mm)



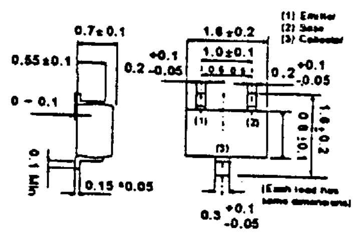
SMT (SC-59/Japanese SOT-23)



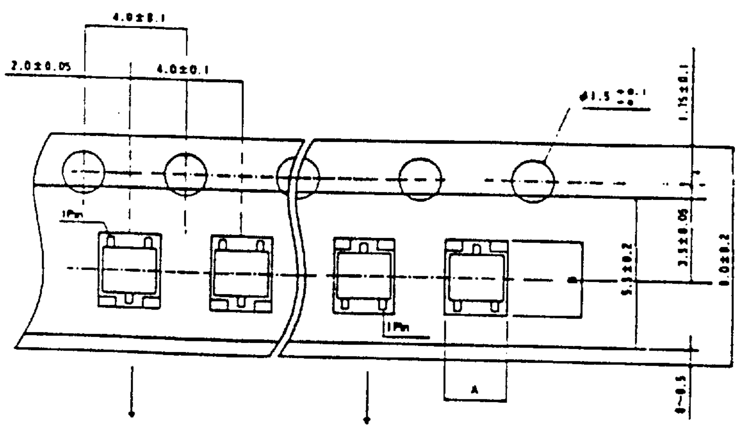
SST (European SOT-23)

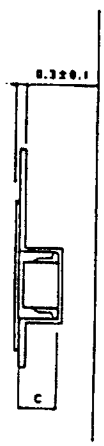


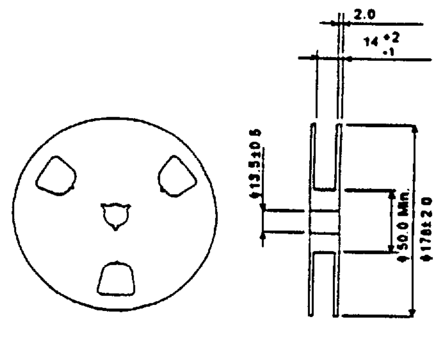
UMT



EM3







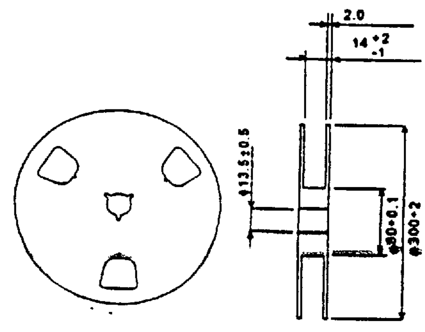
178 mm/7" Reel

Package	Code
SMT	T147
SST	T117
UMT	T107
EM3	TR

Package	Code
SMT	T146/T246
SST	T116/T216
UMT	T106/T206
EM3	TL

Package	Size		
	A	B	C
SMT	3.1±0.2	3.2±0.2	1.35±0.1
SST	3.1±0.2	2.8±0.2	1.25±0.2
UMT	2.2±0.1	2.4±0.1	1.15±0.1
EM3	1.8±0.1	1.8±0.2	0.9±0.2

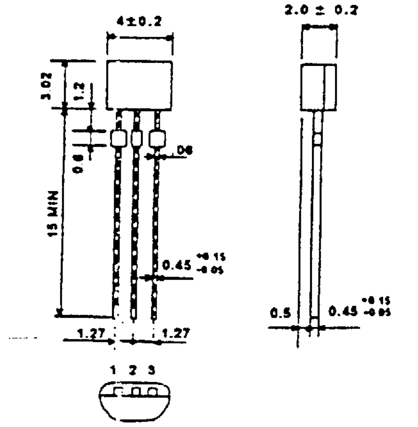
Tape and Reel Dimensions



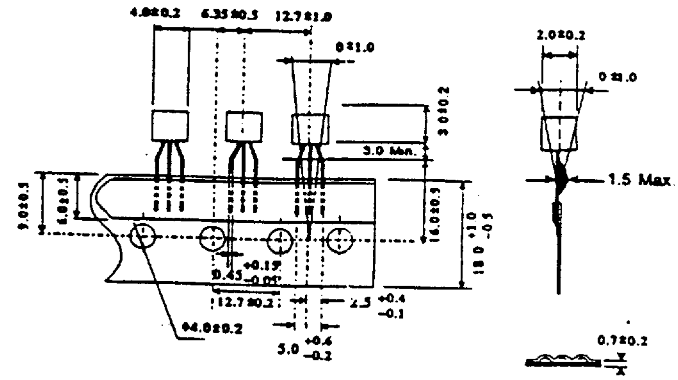
330 mm/13" Reel

ROHM CORPORATION, Rohm Electronics Division, 3034 Owen Dr., Antioch, TN 37013 (615)641-2020 FAX (615)641-2022

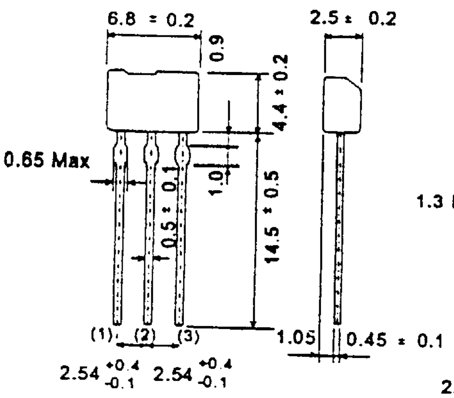
- Leaded (thru-hole) Packages



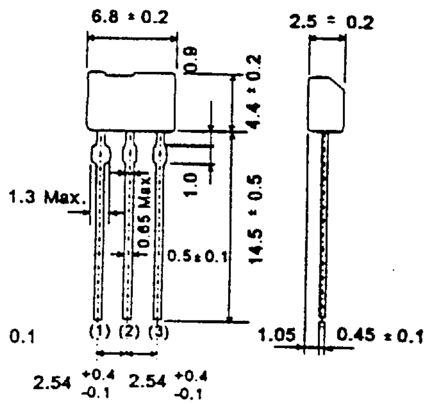
SPT(TO-92S) Package



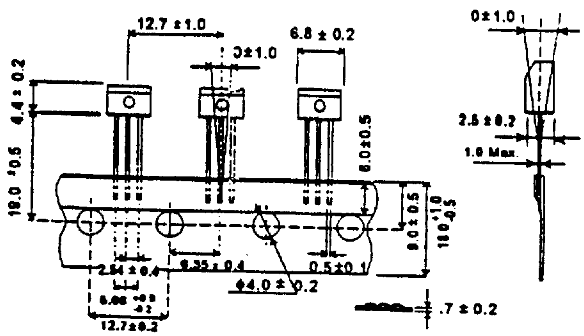
Ammo Box Taping Dimensions



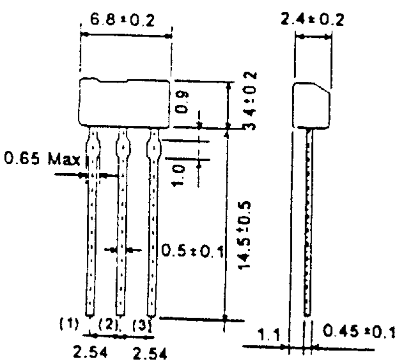
ATV(TV2 Style) Package



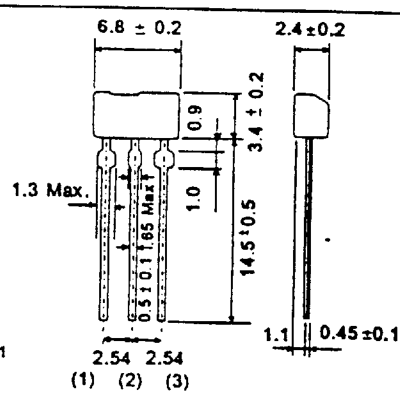
ATV(TV3 Style) Package



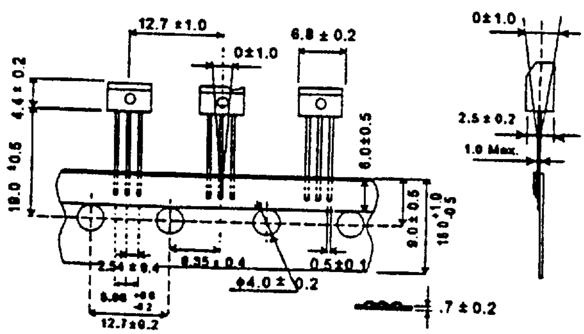
Ammo Box Taping Dimensions



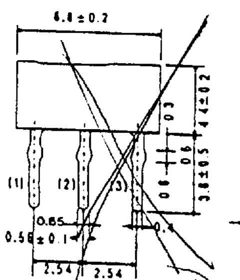
FTL(TL2 Style) Package



FTL(TL3 Style) Package

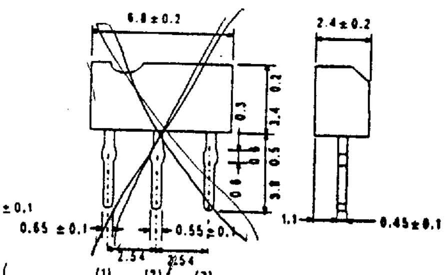


Ammo Box Taping Dimensions



Discontinued

FTR Package



ATR Package

PKG.	TAPING CODE	DESCRIPTION	PKG. QTY.
SPT(TO-92S)	TP	AMMO BOX RADIAL (Standard)	5,000
	NONE	BULK	2,000
ATV	TV2	AMMO BOX RADIAL (Standard)	2,500
	TV3	AMMO BOX RADIAL	2,500
FTL	TL2	AMMO BOX RADIAL (Standard)	2,500
	TL3	AMMO BOX RADIAL	2,500
~~FTR~~	NONE	BULK (Standard)	2,000
	[illegible]	TUBE	8,000
~~ATR~~	NONE	BULK (Standard)	2,000
	[illegible]	TUBE	8,000

Discontinued
Discontinued